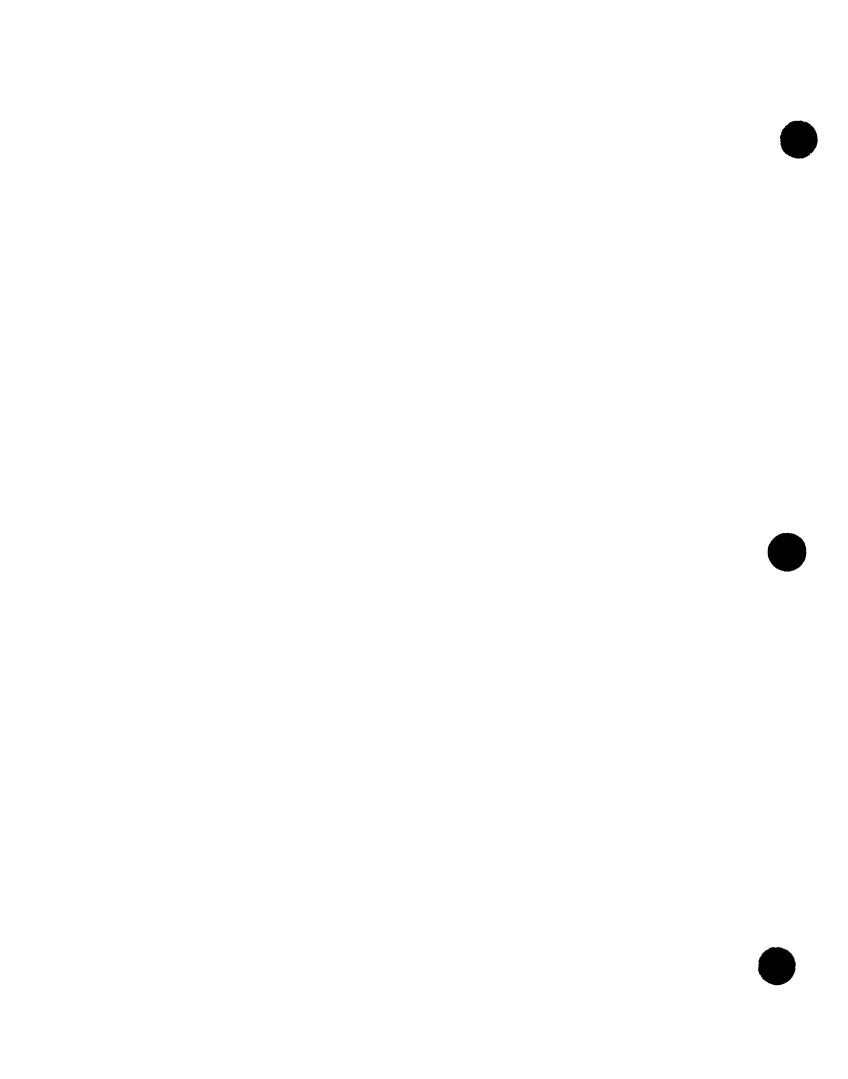


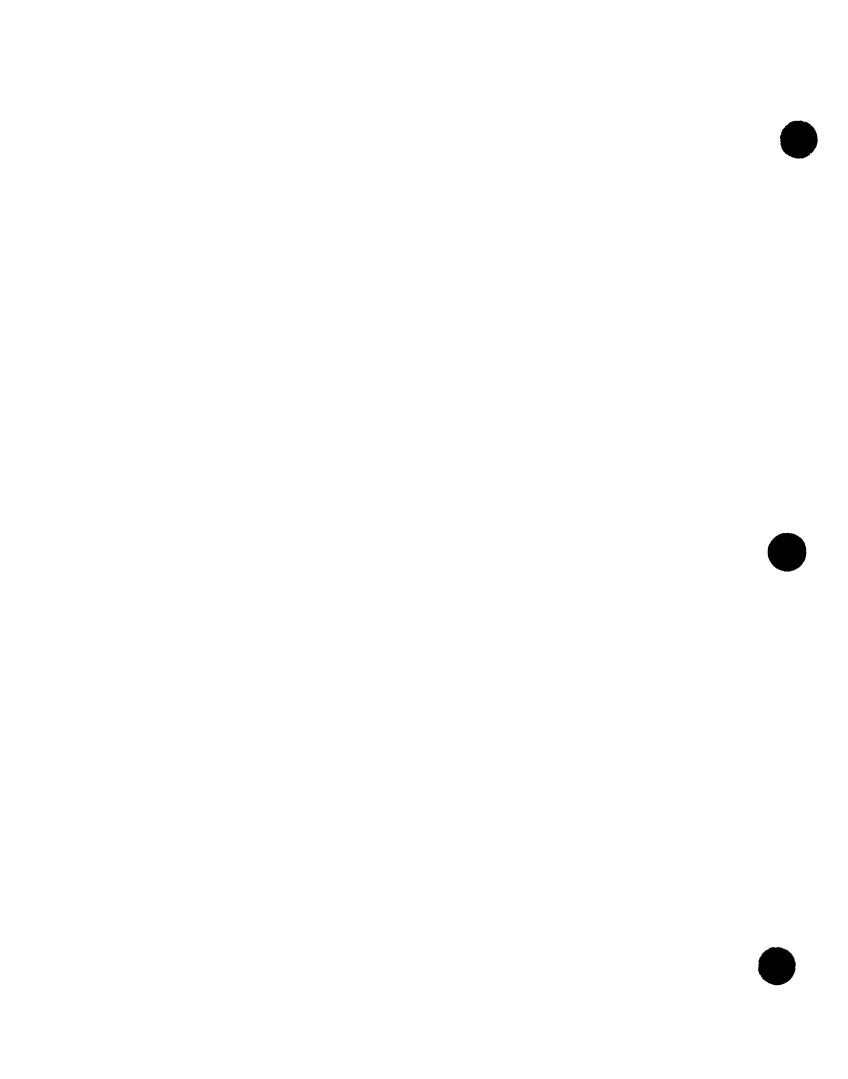
U.S. Department of Transportation

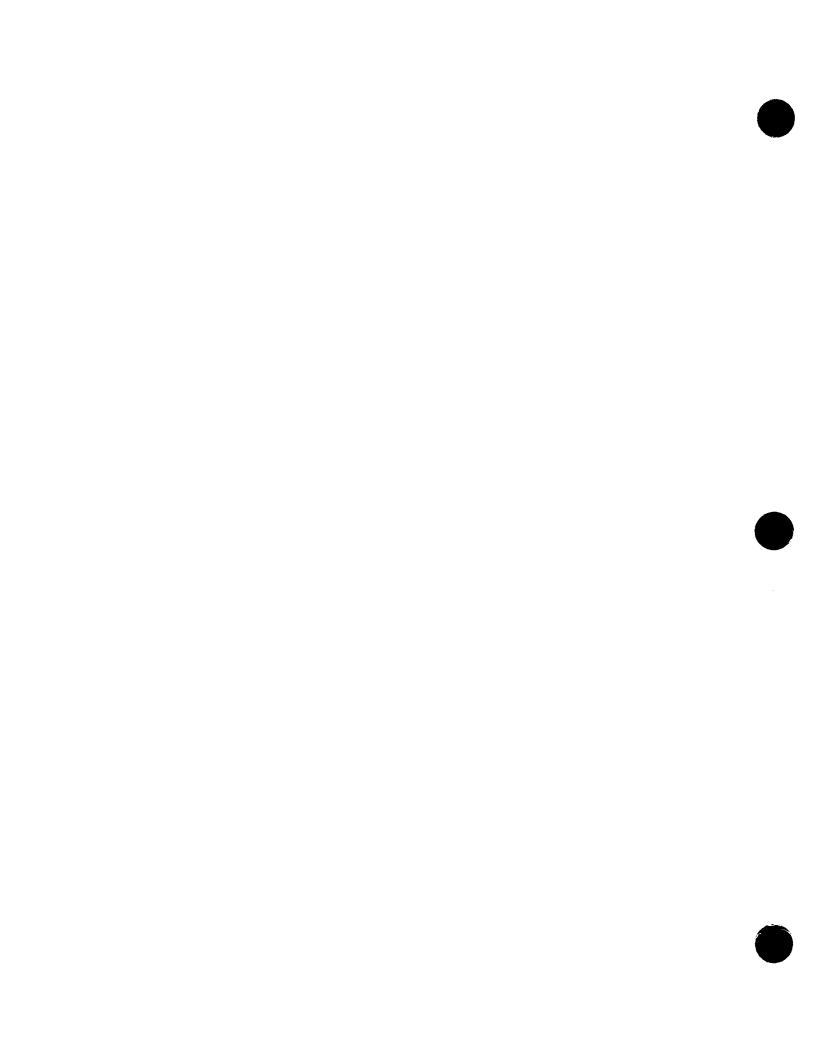
Federal Aviation Administration

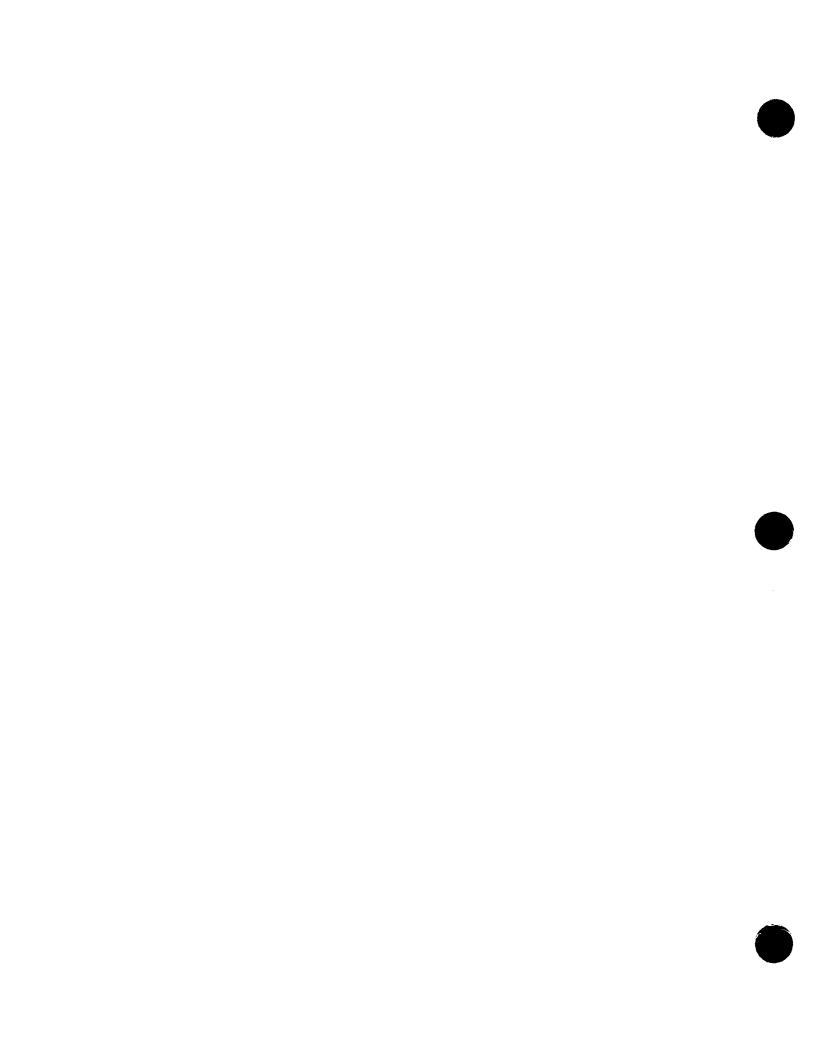
Standard

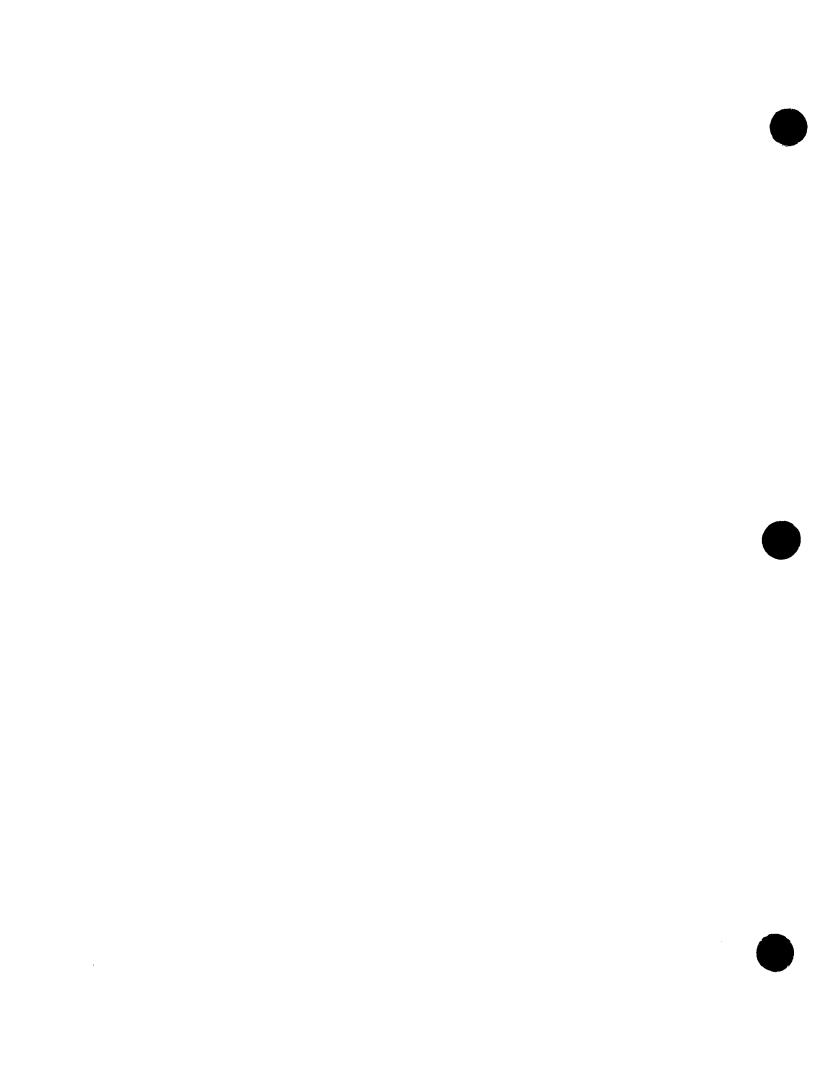
Preparation of Program Implementation Plans











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1. SCOPE

- **1.1 Schipes** tandard specifies the requirements for the organization and content of Program Implementation Plans (PIP).
- 1.2 <u>Purpose</u>. The purpose of this standard is to establish a common organization and minimum content of a PIP.

2. APPLICABLE DOCUMENTS

2.1 Government documents. The following documents of the issue currently in effect form a part of this standard to the extent specified. In the event of a conflict between the contents of this standard and the documents referenced, the documents referenced shall take precedence.

ORDERS:

Order **1810**. Acquisition Policy

Order **000011** FAA Standard Subject Classification System

OTHER PUBLICATIONS:

Implementation Process Guidelines (ANS 210)
GPO Style Manual

2.2 Non-Government documents. This section is not applicable to this standard.

3. REQUIREMENTS

- **3.11** Program Implementation Plan (PIP) form& The PIP format shall conform to the organization specified in Appendix A of this standard. Appendix A of this standard is available on electronic media from ANS for read only.
- **3.1.** Il PIP numbering. The number assigned to a PIP shall adhere to the following nomenclature. The first character shall be "P". The second through fifth digits shall reflect a subject category as defined by FAA Order **0000.1**, FAA Standard Subject Classification System. Next, there shall be a period. Finally, a sequential number shall be assigned by **ANS** in order to uniquely identify a PIP within the subject category. Revisions to **PIPS** shall be indicated by an alphabetic character concatenated to the end of the number.
- **3.1.2** Cover and transmittal provisions. The PIP shall have a title page followed by a signature page with the control number placed in the top right comer, the program name and document issuance date centered on the page, and the appropriate FAA distribution codes placed at the bottom of the page.
- **3.1.3** <u>PIP page format.</u> Each odd page shall specify **the** issuance date in the top left comer, the PIP control number in the top right comer, and the page number in the bottom right comer. Each even page shall specify the issuance date in the top right comer, the PIP control number in the top left comer, and the page number in the bottom left comer. Text shall be presented in single column form, with left justification. The left and right margin shall be no less than one **(1)** inch. Font size of the text shall be no smaller than **10** pt. nor larger than **12** pt. Paragraph numbers and paragraph titles shall be left adjusted in bold typeface. Numbers and titles of figures and tables shall also be in bold typeface. All other style considerations shall conform to the GPO Style Manual.
- **3.2** PIP content The content of a PIP shall comply with the following criteria:
- **3.2.** Emphasis. The main function of a PIP shall be to provide technical information and guidance to all levels of the FAA that are involved in program/project implementation. The writer of a PIP shall bear in mind that **AF**

Operations, AT Operations, System Configuration & Engineering, Physical Facilities, Financial Resources, Human Resources, Test & Evaluation, System Support, Schedule, Administration, and Implementation (Requirements) are the essential elements of a successful program/project implementation and, therefore, shall be the focus of a PIP. It is incumbent upon each PIP writer to consider the impact of these elements with respect to the program on all levels of the FAA and to structure the content of the PIP in a manner that provides useful program insight to all levels of the FAA concerned with program implementation. Refer to the Implementation Process Guidelines for additional information.

- **3.2.2** <u>Level of detail...</u> A PIP shall contain a sufficient level of detail to provide a basic understanding of the implementation strategy and plans, the physical and functional parameters, and the financial and operational impacts on the **NAS** caused by the program implementation. FAA Order **18 10.1** recognizes that the availability of information and level of detail of some of the essential elements of information will change as the program progresses through the acquisition phases. See paragraph **3.3** for provisions pertaining to missing or incomplete information.
- **3.2.3** <u>Referencing.</u> References shall be included within each paragraph down to the second decimal level (e.g., **3.2.6** Personnel Certification). The reference shall indicate the name and version or date of the source for the information contained in the paragraph. Administrative paragraphs and headers without text directly associated with them do not need to be referenced.
- **3.2.4** Lack of program management plan. If a program management plan or equivalent does not exist, a PIP can additionally serve as a program management plan by increasing the detail included in the Administration and Program Overview chapters.
- **3.25** <u>Program management plan exists,</u> If a program management plan exists, the PIP shall contain relevant summary information and reference the program management plan for further details.
- **3.3** Cohipliance. The content of a PIP shall also comply with Appendix A of this standard. If an item that is required by Appendix A is not applicable to the PIP for a given program, it shall be so noted by use of the term 'Not Applicable' (N/A). If an item required by Appendix A is not yet available, it shall be so noted by use of the term 'To be supplied' (TBS). In instances where a **TBS** entry is made, a summary of the process and time-frame for supplying the information should be provided. The requirements of this standard and appendix A shall be used to **define** the minimum content of a PIP. The reserved sections in Appendix A shall be used as needed to fully **document** the approved tailored aspects of program implementation.
- **3.3.** Waiver. A waiver may be granted for non-conformance to this standard if the program is beyond **KDP 4,** an approved PIP already exists based on the previous standard, and it is determined that the missing information is non-critical to deployment. This determination shall be made by the Program Manager (PM) and Associate Program Manager for **NAS** Implementation (**APMNI**). Waivers are granted by **AAF-1**.
- **3.4** PIP preparation updates and revisions. Ultimate responsibility for preparation, updating, and revision of the PIP resides with the Program Manager, as provided for in FAA Order **18 10.1** This responsibility will normally be delegated to the **APMNI** who will assemble the PIP data supplied by program/project personnel and others cognizant of a particular section. Among organizations contributing information for the PIP are **AAT, AAF, AHR, AOS, ACW, AVN, ASE** and **ANS.** A PIP shall be updated at the end of each Transition Information Exchange (TIE) and a revision issued at least once during each acquisition phase in accordance with FAA Order **18 10.1**. Each organization supplying a **TBS** entry to a PIP shall immediately furnish the affected FAA program manager or the **APMNI** an updated entry upon the availability of the information required by the PIP. **When** program events (e.g., contract modifications) result in significant changes in deployment schedules or other specific deployment critical data, the Program Manager or **APMNI** may distribute change pages to the PIP. Major changes in program implementation planning shall be cause for a complete PIP revision. The update and revision schedules will be defined in the PIP based upon program-unique circumstances and the acquisition cycle as defined in FAA Order **1810.1.** A Record of Changes sheet shall be included as part of the PIP and shall specify the issuance date and page changes or revision number if a complete revision was issued.

- **3.5 <u>genroPrams</u>** or <u>projects.</u> Programs or projects that encompass more than one major product shall create a PIP for each product, whenever practical as determined by the PM and **APMNI**.
- **3.6** Data requirements list and cross reference. When this standard is used in an acquisition which incorporates Contract Data Requirements List (CDRL), the data requirements identified in Appendix A shall be developed as specified by the Data Item Description (DID) ANSHOOO1 and delivered in accordance with the approved CDRL as incorporated into the contract.

4. QUALITY ASSURANCE PROVISIONS

This section is not applicable to this standard.

5. PREPARATION FOR DELIVERY

This section is not applicable to this standard.

6. NOTES

6.11 Definitions.

Acquisition Phase. The period of time following a key decision point when specific activities are conducted to achieve acquisition objectives.

Associate **Program Manager for NAS Implementation** ogram Manager's matrix support team assigned by **ANS** to plan and coordinate program implementation, and to serve as an information bridge between Headquarters, Region, and field activities.

Essential Elements of Information. The eleven essential elements of information are critical topics required to be addressed in the PIP. The eleven elements are: **AF** Operations, AT Operations, System Configuration & Engineering, Physical Facilities, Financial Resources, Human Resources, Test & Evaluation, Implementation, System Support, Schedule, and Administration. The elements are described in greater detail in Appendix 2.

<u>Implementation.</u> Those activities necessary to deploy and support a new product into a facility or field environment.

<u>Implementation Management Team</u>. A team established by the **APMNI** and Program Manager. The **IMT** consists of the **APMNI**, representative regional implementation personnel and other Associate Program Managers.

<u>Management by Exception</u>. A management concept in which an issue is only elevated after every effort has been made to resolve the concern within the manager's authority and resources.

<u>Milestone</u> ation event that marks the successful completion of a series of dependent activities resulting in definable program progress.

Operational State. The period of time at a site following the successful completion of site implementation.

<u>Platforim</u>.type of **NAS** facility **that** hosts the systems and subsystems necessary to perform an essential air traffic control function. The three types of platforms as currently defined are: **ARTCC**, **ATCT**/TIRACCON, and **GNAS** facilities.

Pre-INCO e begins with the program site survey and concludes with delivery of program equipment at the site. **Pre-INCO** activities include power installation, signal cable location, and overall site preparation culminating with the delivery of program equipment and successful completion of site preparation.

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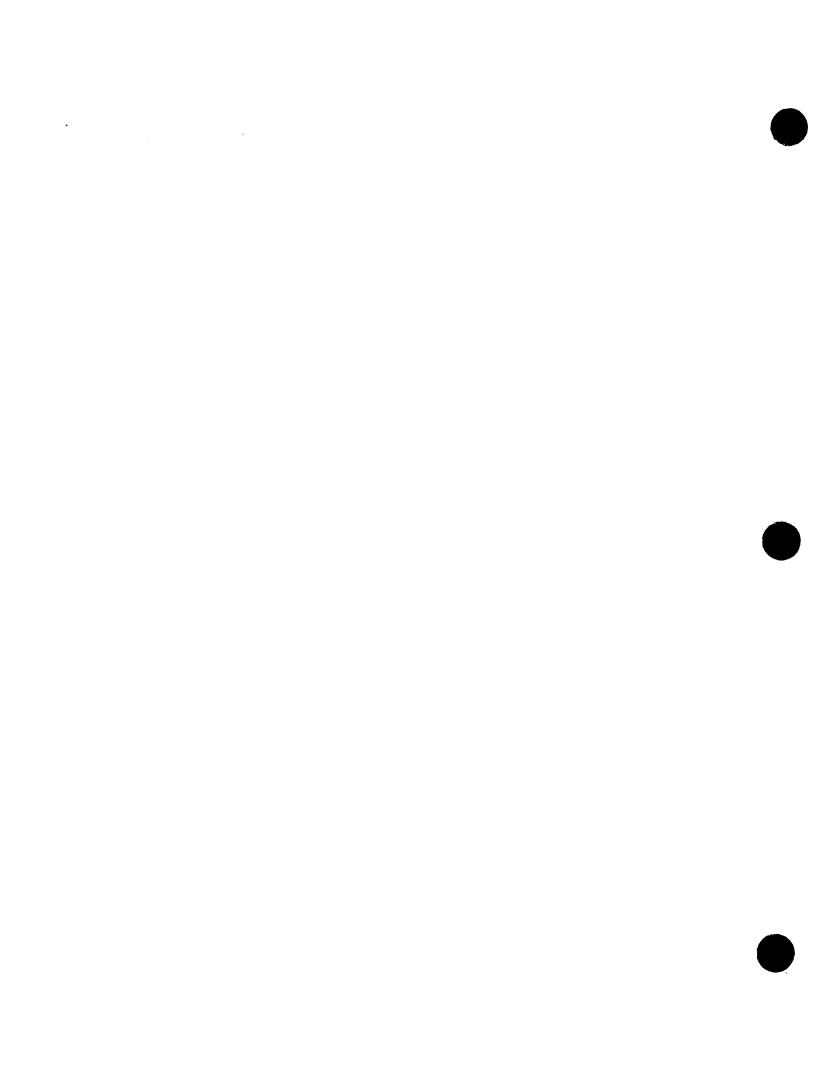
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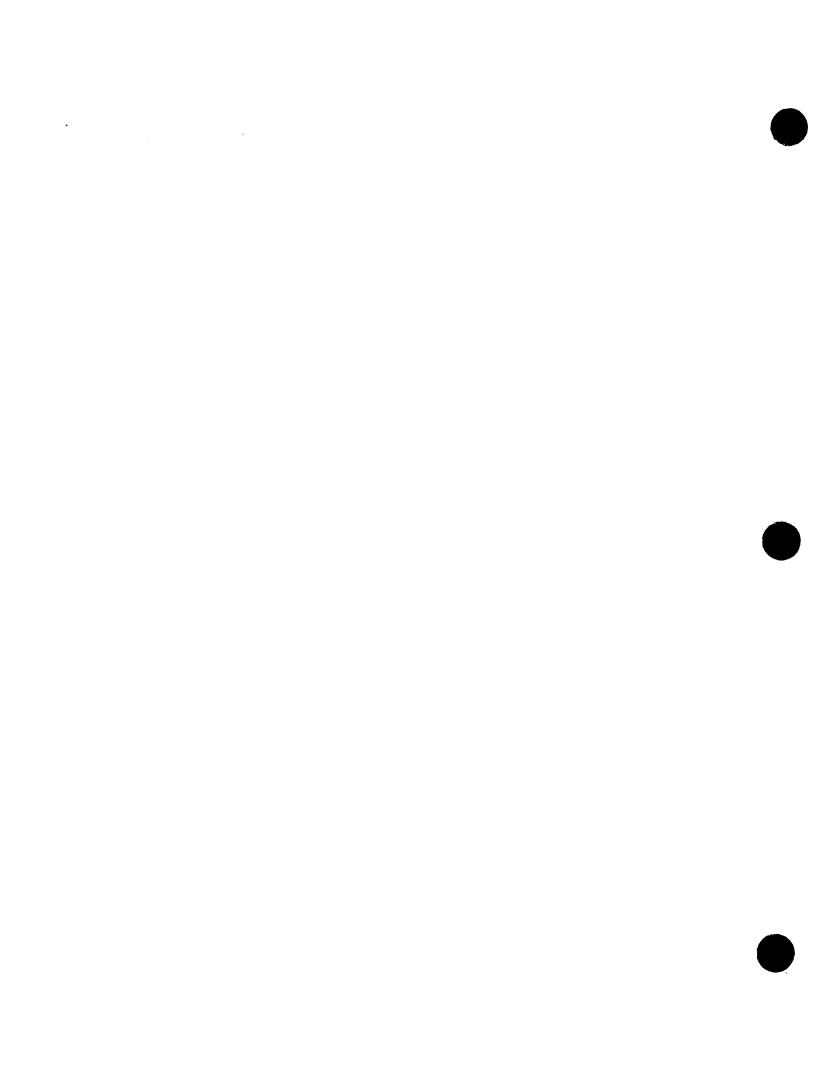
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2.0 PROGRAM OVERVIEW

2.1 Synopsis of Mission Need

2.1.11 Operational Needs

List the operational needs to be met by the program based upon the program's Mission **Næeds** Statement and current version of the Operational Requirements Document.

2.1.2 Strategic Goals

Synopsize the strategy to be employed to meet the operational needs, including the number of systems to be procured and installed and the time frame for doing so.

2.2 Functional Description

Provide a brief synopsis of the functional performance characteristics to be obtained by products being procured based on the current version of the program's Operational Requirements 'Document and subsystem specification.

2.3 Program History & Status

Provide a brief description of program achievements to date and a summary of fullive program activities.

2.4 Program Milestones

Provide a program milestones chart

2.5 Inter-Agency Involvement

2.5.11 Department of Defense (DOD)

Identify the specific components of the program (e.g., USAF, USN, etc.) involving the DOD including which branch is involved.

2.5.2 National Weather Service (NWS)

Identify the specific components of the program involving the NWS.

2.5.3 U.S. Customs Service

Identify the specific components of the program involving the U.S. Customs service.

2.5.4 Drug Enforcement Agency (ELEAN)

Identify the **specific** components involving the **DEA**.

2.5.5 Other Agencies

Identify the specific components involving other federal agencies.

2.6-2.19 (Reserved)

2.20 Risk Assessment

Synopsize the generic potential risks, **ifamy**, associated with the program.

3.0 AF OPERATIONS

3.1 Summary of Maintenance Operations Impacts

3.1.11 Transitory State

List and briefly describe the nature of potential impacts on **AF** operations due to site implementation activities.

3.1.2 Operational State

List and briefly describe the nature of changes to **AF** operations when theproducts of the program are in operational use. **Identify** the position types directly affected by the program and the roles they will perform in the operation and maintenance of the new system.

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List and briefly describe the nature of potential impacts on **AF** operations due to site implementation activities.

3.1.2 Operational State

List and briefly describe the nature of changes to **AF** operations when theproducts of the program are in operational use. **Identify** the position types directly affected by the program and the roles they will perform in the operation and maintenance of the new system.

4.3 AT Implementation

Briefly describe the role and schedule for **AT**[personnel] involvement in the program implementation..

4.4-4.19 (Reserved)

4.20 Status Assessment

Identify any missing or incomplete data and characterize the potential impacts on site implementation. Synopsize any AT operational issues/risks **identified** to date and describe plans to resolve/mitigate identifiedproblems.

5.0 SYSTEM CONFIGURATION AND ENGINEERING

5.1 NAS Level Architecture

5.1.1 NAS Target State

Synopsize the relationship of the program to the **NAS** target state configuration as depicted in **NAS-SS-11000**.

5.1.2 Inter-program interfaces

Identify the interfaces to other **NAS**_[**programs** and using corresponding subparagraphs, describe the nature of the interfaces and any dependencies.

5.1.211 - 5.1.2.m (as necessary)

5.2 Platform Architecture

Provide a brief description of the program within the context of the designated platform.

5.2.1 Interim Platform Configuration

Summarize the interim platform configuration to be achieved by implementation of the program, based on the current version of the **NAS** Platform Transition Plan.

5.2.2 Target State Configuration

Summarize the relation of the program to the target-state platform configuration based on the current version of the **NAS Platiform** Transition Plan.

5.3 Subsystem Level Architecture

Provide a brief description of the program as a self contained subsystem.

5.3.11 Hardware

List major hardware components and using corresponding subparagraphs, briefly describe the junction and operating parameters of each' component. Indicate the minimum hardware required for the system to achieve fill and minimum operational functionality as means of depicting potential impacts on deployment if fullifunding is not achieved.

5.3.1.1 - 5.3.1.m (as necessary)

5.3.2 Software

List major software components (e.g., **CSCIs**) and using corresponding subparagraphs, briefly describe the function and operating parameters of each component.

5.3.2.1 - 5.3.2.m (as necessary)

5.3.3 Physical Specification

List the physical dimensions and characteristics of the program equipment (i.e., size and weight).

5.4-5.19 (Reserved)

Identify any missing or incomplete data and characterize the potential impact on site implementation. Synopsize any System Engineering and Configuration issues/risks, identified to date and describe plans underway to resolve/mitigate identifiedproblems.

6.0 PHYSICAL FACILITIES

For each of the following subparagraphs dealing with aspects **of physicall facilities**, provide a synopsis of requirements and plans. Where applicable, describe the impact on the program of related legislation **and/or** regulations (e.g. **OSHM**, Americans with Disabilities Act, Energy Conservation/Alternative Energy etc.)

6.1 Real Estate

6.1.11 Real Estate Requirements

Consider and identify specific real estate requirements (transitory and operational) relevant to the program's needs; summarize constraints of the generic facility type. As an aspect of the real estate requirements assessment, identify requirements, if any, for revisions to existing land leases and the status of requirements in terms of required amendments.

6.1.2 Real Estate Plans

Summarize the program plans for meeting identified requirements.

6.2 Heating, Ventilation & Air Conditioning (HWAC)

6.2.11 HWAC Requirements

Consider and identify specific HVAC requirements (transitory and operational) relevant to the program's needs; summarize constraints of the generic facility type.

6.2.2 HWAC Plans

Summarize the program plans for meeting identified requirements. **Identify**p**blans** for each room/area **affeatel**d.

6.3 Cables

6.3.11 Cable Routing/Raised Floor Requirements

Consider and **identify** cable, cable routing and **raisedfloor** requirements (transitory and operational) relevant to the program's **needs**; summarize constraints of the generic facility type.

6.3.2 Cable Plans

Summarize the program plans for meeting **identified** requirements. **Identify** types (e.g. non-plenum rated) of cable to be used and provide a **briefinastification** for its use.

6.4 Power

6.4.1 Power Requirements

Consider and **identify** power requirements **(transitory** and operational) relevant to each hardware component; summarize constraints of the generic facility type. **Identify** harmonic requirements of all contractor provided equipment and any deviations from current FAA **standards**.

6.4.2 Power Plans

Summarize the program plans for meeting identified requirements.

6.5 Physical Safety & Security

Identify any missing or incomplete data and characterize the potential impact on site implementation. Synopsize any System Engineering and **Configuration** issues/risks, identified to date and describe plans underway to resolve/mitigate identifiedproblems.

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Summarize the program plans for meeting identified requirements.

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Identify any missing or incomplete data and characterize the potential impact on site implementation. Synopsize any physical facilities issues/risks, identified to date, and describe plans to resolve/mitigate identifiedproblems.

7.0 FINANCIAL RESOURCES

7.1 Summary of Funding Plan

Provide a brief description of the plan for **satisfying** all of the financial and budgetary requirements related to implementing, maintaining, and operating the program in the **NAS**.

7.2 Facilities and Equipment (F&E) Budget

7.2.1 F&E Budget Requirements

Briefly summarize the projected **F&E funding** requirements. **Identify** cost categories related to implementation to **be funded** under F&E.

7.2.2 Summary of F&E Funding Status

Summarize the current status of budgetary authorizations in relation to achieving the goals of the program. **Identify** any impacts of reduced levels of authorizations **from** initial spending plans.

7.3 Operations and Maintenance (O&M) Budget

7.3.1 O&M Budget Requirements

Briefly summarize the projected **O&Mfunding** requirements and cost categories requiring **O&Mfunding**.

7.3.2 Summary of **O&M** Funding Status

Summarize the current status of budgetary authorizations in relation to achieving the goals of the program. **Identify** any impacts of reduced levels of authorizations **from** initial spending plans.

7.4 Research, Engineering and Development (**RE&D**) Budget

7.4.1 RE&D Budget Requirements

Briefly summarize the projected BE&D **funding** requirements and cost categories requiring **RE&D** funding..

7.4.2 Summary of **RE&D** funding Status

Summarize the current status of budgetary authorizations in relation to achieving the goals of the program. **Identify** any impacts of reduced levels of authorizations **from** initial spending plans.

7.5-7.19 (Reserved)

7.20 Status Assessment

Identify any missing or incomplete data and characterize the potential impact on site implementation. Synopsize any potential financial resource issues/risks, identified to date and describe plans to resolve/mitigate identified problems.

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7.3 Operations and Maintenance (O&M) Budget

7.3.1 O&M Budget Requirements

Briefly summarize the projected **O&Mfunding** requirements and cost categories requiring **O&Mfunding**.

7.3.2 Summary of **O&M** Funding Status

Summarize the current status of budgetary authorizations in relation to achieving the goals of the program. **Identify** any impacts of reduced levels of authorizations **from** initial spending plans.

7.4 Research, Engineering and Development (**RE&D**) Budget

7.4.1 RE&D Budget Requirements

Briefly summarize the projected BE&D **funding** requirements and cost categories requiring **RE&D** funding..

7.4.2 Summary of **RE&D** funding Status

Summarize the current status of budgetary authorizations in relation to achieving the goals of the program. **Identify** any impacts of reduced levels of authorizations **from** initial spending plans.

7.5-7.19 (Reserved)

7.20 Status Assessment

Identify any missing or incomplete data and characterize the potential impact on site implementation. Synopsize any potential financial resource issues/risks, identified to date and describe plans to resolve/mitigate identified problems.

8.3.2 Training Support

Ident (b) and describe the training support resources to be used in implementing the training programs.

8.3.3 Personnel Shills

Summarize the results of the knowledge, skills, and abilities study conducted to determine training requirements. Summarize training requirements of all affected personnel, including special training required for second level engineering support, including software and component level course requirements.

8.3.4 Training Quotas

Identify the types, location and duration of contractor and government training for all **affected** personnel, by position classification.

8.3.5 Training Schedule

Identify the schedule (in relation to site implementation milestones) for conduct and completion of any system related training.

8.4-8.19 (Reserved)

8.20 Status Assessment

Identify any missing or incomplete data and characterize the potential impacts on site implementation. Synopsize any human resource issues/risks identified to date and describe plans to resolve/mitigate **identifiedppoblems**.

9.0 TEST AND EVALUATION

9.1 Overview of Test Program

9.1.11 Government Test Program

Identify the components of the government conducted test program (e.g. shakedown, **OT&E)** and using corresponding subparagraphs, briefly synopsize the purposes, location(s), sequence and when available, the schedule for each component.

9.1.2 Contractor Test Program

Identify the components of the contractor conducted test program and using corresponding subparagraphs, briefly synopsize the purpose(s), location(s), sequence and, when available, the schedule for each component.

9.2 T&E Schedule

Provide a schedule for conduct of the test program in relation to acquisition and site implementation milestones.

9.3 T&E Responsibility Matrix

Using the subparagraph headings provided **identify** relevant individuals and organizations involved in the test program and briefly describe the role(s) and responsibilities **of each**.

9.3.11 Government Test Organization

9.3.2 Contractor Test Organization

9.4 T&E Field Support Requirements

9.4.1 Personnel Requirements

Identify the numbers and types of FAA personnel required to support government and contractor test and evaluation activities. Include training requirements and training schedules for T&E personnel.

8.3.2 Training Support

Ident (b) and describe the training support resources to be used in implementing the training programs.

8.3.3 Personnel Shills

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10.2.2 FAA Technical Center

Using the paragraph headings provided below, **briefly** describe the system support facility requirements at the FAA Technical Center and describe plans for providing support to the systems provided by the program.

10.2.211 Restoration Response Level

10.2.2.2 Field Level Maintenance

10.2.2.3 Depot Level Maintenance

10.2.2.4 Engineering Support

10.2.3 Other Special Support Facilities

Identify any additional Special Support Facilities required by the program. Use subparagraphs per sections **10.2.II** and **10.2.2** to describe the facility requirements and plans for providing support to the systems provided by the program.

10.3 Materiel Support

10.3.11 Project Materiel

Briefly describe the implementation and operational material support concept.

10.3.2 Provisions and Supply Support

Synopsize plans for initial provisioning of materiel. **Identify** the location and quantities of spares and repair parts to be provided.

10.3.3 Packaging Transportation and Storage

Summarize requirements **andplians** for meeting packaging, handling, transportation and storage of components of the system being deployed.

10.4 Technical Documentation

Using the paragraph headings provided below, **identify** and describe the system documentation to be provided by the program. Briefly describe the process by which each type **of** documentation will be validated for completeness and accuracy. **Identify** the format(s) (e.g. hard copy, magnetic media, etc.) in which technical documentation will be provided

- 10.4.11 Hardware Documentation
- **10.4.2** Software Documentation
- 10.4.3 Procedural Documentation

10.5-10.19 (Reserved)

10.20 Status Assessment

Identify any missing or incomplete **data** and characterize the potential impact on site implementation. Synopsize **any** system support issues/risks identified to date and describe plans to resolve/mitigate **identified problems**.

, 11.0 PROGRAM SCHEDULE INFORMATION

11.1 NAS Implementation Schedule

Provide a Materiel Delivery Forecast Module (MDFM) data based "waterfall" schedule of the planned implementation of the program.

11.2 Deployment Schedule

Provide a schedule for the deployment of program equipment to each implementation site.

11.3 Site Implementation Schedule

Provide a schedule for completion of each site's major implementation milestones.

10.2.2 FAA Technical Center

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Provide a schedule for completion of each site's major implementation milestones.

13.1.5 Contract Support

Identify any support contractor organizations which will be supporting program and site implementation and briefly summarize the role of each contractor.

13.2 Site Implementation Process

Using the paragraph structure provided below, describe the implementation activities associated with each site implementation phase and **identify** the transitory requirements needed to accomplish implementation activities. "Transitory" requirements are the **differences** (deltas) between the existing human and financial resources and physical attributes of the facilities and equipment and those proposed.

13.2.1 Implementation Planning Phase

13.2.1.11 Implementation Activities

Summarize the planning activities **requiring field participation** to support system implementation at the site, beginning with the concept exploration phase **of** the acquisition process and continuing through the system integration phase at the site.

13.2.1.2 Requirements

List and **quantify** or describe the transitory requirements associated with the implementation planning phase.

13.2.2 Pre-Installation and Checkout (Pre-INCO) Phase

13.2.211 Implementation Activities

Summarize the implementation activities at the site, beginning with the site survey and continuing through site preparation and delivery of equipment to the site.

13.2.22 Requirements

List and quantify or describe the transitory requirements associated with the **Pre-INICO** phase.

13.2.3 Installation and Checkout (INCO) Phase

13.2.311 Implementation Activities

Summarize the implementation activities at the site, beginning **after** delivery **of** equipment to the site **and prior** to successful completion **of** Contractor Acceptance Inspection **(CAV)**.

13.2.3.2 Requirements

List and quantify or describe the transitory requirements associated with the **INCO** phase.

13.2.4 System Integration Phase

13.2.411 Implementation Activities

Summarize the implementation activities at the site when new equipment is connected to the operation system and tests are conducted to **verify** performance of interfaces. This phase **extends** from **CAI** through Initial Operational Capability (IOC).

13.2.4.2 Requirements

List and **quantify** or describe the transitory requirements associated with the System Integration Phase.

13.2.5 Field Shakedown Phase

13.2.511 Implementation Activities

Summarize the implementation activities at the site during the period of time between *IOC* and Operational Readiness Demonstration (ORD).

13.2.5.2 Requirements

List and quantify or describe the transitory requirements associated with the Field Shakedown Phase.

13.2.6 Dual Operations Phase

13.2.611 Implementation Activities

Summarize the implementation activities at the site during the period of time when the new equipment has been commissioned and is operating as the primary system, but replaced equipment is in place in a back-up mode.

13.1.5 Contract Support

Identify any support contractor organizations which will be supporting program and site implementation and briefly summarize the role of each contractor.

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